



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LVPECL

Voltage Controlled Crystal Oscillator

CVPD-037X Model 5x7 mm SMD, 3.3V, LVPECL

Frequency Range: 40.000 to 170.000 MHz
Operating Temperature Range: -40°C to 85°C
Storage Temperature Range: -45°C to 90°C
Input Voltage: 3.3V ± 5%
Control Voltage: 1.65V ± 1.5V
Input Current: 56mA Max
Standby Current: 800uA
Output: PECL
 Symmetry: 45/55% Max @ zero crossing point
 Rise/Fall Time: 0.25nSec Typical, 0.5ns Max, (20% to 80%)
 Pullability APR: ±50ppm Min APR
 Load: 50 ohms (Vdd-2.0V)
 Logic "1" Level: 2.275 VDC Min
 Logic "0" Level: 1.680 VDC Max
 Modulation BW: 15 kHz Min

Input Impedance: 5 Mohm Min
Enable Delay Time: 2 ms Max
Disable Delay Time: 200 ns Max

Phase Noise (Typical for 160 MHz):
 10 Hz Offset: -60 dBc/Hz
 100 Hz Offset: -90 dBc/Hz
 1 kHz Offset: -118 dBc/Hz
 10 kHz Offset: -134 dBc/Hz
 100 kHz Offset: -144 dBc/Hz
 1 MHz Offset: -150 dBc/Hz
 10 MHz Offset: -157 dBc/Hz
 40 MHz Offset: -157 dBc/Hz



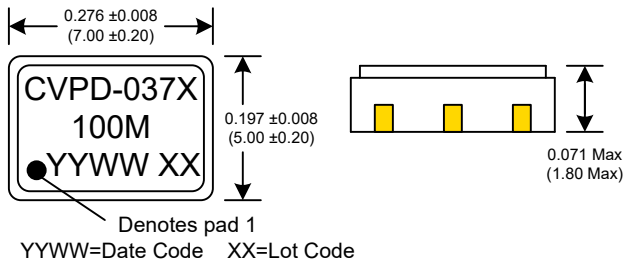
Standard Frequencies (MHz)
100.000
122.880
153.600
156.250

Mechanical:	
Shock:	MIL-STD-883, Method 2002, Condition B
Solderability:	MIL-STD-883, Method 2003
Vibration:	MIL-STD-883, Method 2007, Condition A
Solvent Resistance:	MIL-STD-202, Method 215
Resistance to Soldering Heat:	MIL-STD-202, Method 210, Condition I or J
Environmental:	
Thermal Shock:	MIL-STD-883, Method 1011, Condition A
Moisture Resistance:	MIL-STD-883, Method 1004

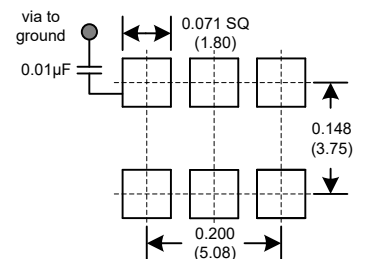
Part Number Example: CVPD-037X-100.000 = 3.3V, ±50ppmAPR, 100 MHz

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

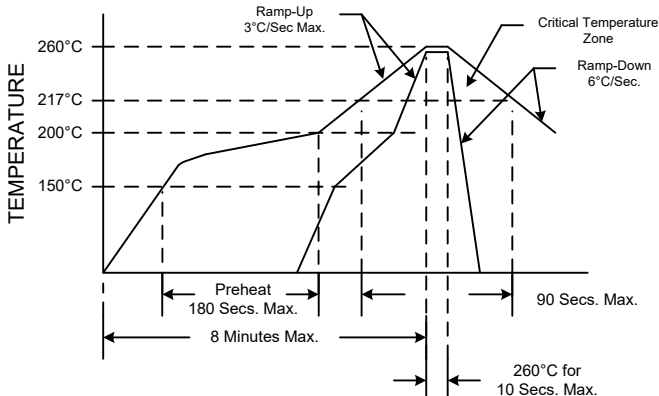


SUGGESTED PAD LAYOUT



0.01µF Bypass Capacitor Recommended

RECOMMENDED REFLOW SOLDERING PROFILE



NOTE: Reflow Profile with 240°C peak also acceptable.

PIN	Connection
1	Cont. Volt
2	E/D
3	GND
4	Output
5	Comp Output
6	Vcc

Enable/Disable	
Function pin 2	Output pin
Open or N/C	Active
"1" level 0.7×Vdd Min	Active
"0" level 0.3×Vdd Max	High Z

Available on 16mm Tape and Reel in quantities of 1,000 pcs.

Rev: F
 Date: 19-Jan-2017
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Specifications subject to change without notice.